





PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference B 14148.3 JL | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | | | | | |
|--|--|--|--|--|--|--|
| International application No. PCT/FR2003/050138 | International filing date (day/month/year) Priority date (day/month/year) 27 novembre 2003 (27.11.2003) 28 novembre 2002 (28.11.2002) | | | | | |
| International Patent Classification (IPC) or n H01H 59/00 | ational classification and IPC | | | | | |
| Applicant COM | MISSARIAT A L'ENERGIE ATOMIQUE | | | | | |
| and is transmitted to the applicant a | | | | | | |
| 2. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). | | | | | | |
| These annexes consist of a total of 3 sheets. | | | | | | |
| 3. This report contains indications rela | ating to the following items: | | | | | |
| I Basis of the report | | | | | | |
| II Priority Non-establishment | of opinion with regard to novelty, inventive step and industrial applicability | | | | | |
| III Lack of unity of inv | | | | | | |
| V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | |
| VI Certain documents cited | | | | | | |
| VII Certain defects in t | VII Certain defects in the international application | | | | | |
| VIII Certain observations on the international application | | | | | | |
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| Date of submission of the demand | Date of completion of this report | | | | | |
| 07 juin 2004 (07.06. | 2004) 07 March 2005 (07.03.2005) | | | | | |
| Name and mailing address of the IPEA/EP | Authorized officer | | | | | |
| Facsimile No. | Telephone No. | | | | | |

Form PCT/IPEA/409 (cover sheet) (July 1998)



| International | ation No. |
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| סכיד/ | TTP 2003/050138 |

I. Basis of the report 1. With regard to the elements of the international application:* the international application as originally filed the description: , as originally filed pages , filed with the demand pages , filed with the letter of pages the claims: , as originally filed pages , as amended (together with any statement under Article 19 pages , filed with the demand pages 07 January 2005 (07.01.2005) 1-6 _____, filed with the letter of ____ pages the drawings: 1/3-3/3 , as originally filed pages , filed with the demand pages filed with the letter of pages the sequence listing part of the description: _ , as originally filed _____, filed with the demand pages __, filed with the letter of _____ pages 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has The amendments have resulted in the cancellation of: the description, pages ___ the claims, Nos. __ the drawings, sheets/fig ____ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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| V. | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; |
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| | citations and explanations supporting such statement |

| Statement | | | |
|-------------------------------|--------|-----|-----|
| Novelty (N) | Claims | 1-6 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 1-6 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | 1-6 | YES |
| | Claims | | NO |

2. Citations and explanations

Claim 1

- The present application relates to an electrostatic micro-switch.
- 2. Closest prior art: US 2002/027487 A1 (SUZUKI KENICHIRO) (7 March 2002), which matches the preamble of independent claim 1 of the application.
- 3. The subject matter of claim 1 differs from the closest prior art by virtue of the following features:

"the first electrostatic force initiates deformation of the flexible means until mechanical contact of the flexible means is achieved, the ends (14, 15) of the conductive paths (4, 5) being far enough apart to prevent the contact pad (6) from electrically connecting the ends of the two conductive paths". The **problem** that this **difference** solves is that of: "maintaining a low actuation voltage and a short switching time while preserving a high mechanical stiffness of the micro-switch in use".

4. Novelty and inventive step:

The solution proposed in the application is not described in the prior art cited in the international search report. It follows that the subject matter of claim 1 is novel.

Furthermore, neither the prior art documents cited in the international search report nor the general knowledge of a person skilled in the art provide an indication of the production of such a device. In the documents cited in the international search report, the contact of the first set of electrodes is simultaneously mechanical and electrical. It follows that the subject matter of claim 1 involves an inventive step.